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West 27 H.C. Spensor

Irrelevent, Unlisted Chemical

To J. E. Johnson (C File) 2-9-49

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INDEX READINGS

Methane, dihydroxydichlorodiphenyl -

Preventol GD

2,2'-Methylene bis(4-chlorophenol)

G4

Irralevant, Unlisted Chemical

PROBLEM

Examination of chickens, that had been maintained for weeks and 56 weeks on diets containing Irrelevant Unlisted Chemical

(K3579), in an effort to determine if any ill effects had been produced by such an experimental regimen.

0.35 dihydroxydichlorodiphenylmethane

EXPERIMENTAL PROCEDURE

maintained for 4 weeks on diets containing 0. Inclevant, Filing Data and on the control diet were submitted by inclevant personal for examination. Red blood cell counts and hemoglobin determinations were obtained on all of the control and experimental animals. Each chicken was killed by decapitation and examined grossly for cathological lesions. The heart, liver and spleen were weighed and portions of the lungs, heart, liver, kidneys, spleen, and in some cases intestine and gizzard were preserved in formalin. Hematoxylin and cosin stained sections of these tissues were prepared for microscopic examination.

After 56 weeks on the experimental diets the following groups of chickens were autopsied by Mr. D. R. Mussell and the formalin fixed tissues submitted for microscopic examination:

7 chickens on control diet

12 chickens on diet containing 0.3% K1409

12 chickens on diet containing 0.3% K3579

These chickens were examined in essentially the same manner as the earlier groups that received the experimental diets for

Irrelevent, Pling Deta

weeke, except no homatological studies were made, testes were weighed in the case of the males, and in only a few cases were nortions of the kidney saved for histological study.

EXPERIMENTAL RESULTS

So far as can be judged from gross observation, hematological values (Table I), organ weights (Table I), and histological examination of the tissues, there was no appreciable difference between the control chickens and those that had received the diets containing

0.75 for either 4 weeks

or 56 weeks.

Varying numbers of large fat vacuoles were observed in the heart in the case of several of the 57-week old chickens (control as well as experimental); however, it is believed that this change is a common one in older chickens and, in all probability, is not associated in any way with dietary feeding of either

Likewise, the occasional heavy, congested spleen is probably not a direct result of the experimental regimen.

TABLE I Summary of Organ Weight and Hematological Data on Chickens That Received Dieta Containing
1 Dihydroxydichlorodiphenylmethane | Frelevant, Unlisted Chemical

Date Killed	Weeks on Diet	Compd. K No.	≸ in Diet	No. of Chickens	Age in Weeks	Sex	Body Wt. (g.)	Org Heart		Spleen	Testes	Gissard	RBC x10 ⁶	
8/15/47	4	Control	0.0	5	8		564	0.53	2.29	0.21			3.80	
"	h		0.3	5	8	Sexes	587	0.42	1.78	0.12			2.78	120 120 120 1241
	Irrelevant, Unlisted Chemical				Mixed			Irrelevant, Unlisted Chemical						
8/4/48	56	Control	0.0	3	57	M	29 97	0.50	0.93	0.09	0.84	1.32		1991 1991 1991 1991 1991 1991 1991 199
n	56		0.3	2	57	M	3289	0.61	1.03	0.13	1.04	1.10		516 616 12 12 12 12 12 12 12 12 12 12 12 12 12 1
	-			trret	evant, Ui	nlisted	Chemics	1						
* :	56	Control	0.0	4	57	F	2296	0.33	1.55	0.09		1.29		日本 日
27	56.	•	0.3	10	57	P	2245	0.49	1.68	0.12		1.57		
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